PTO/SB/21 (09-04)

PTO/S8/21 (09-04)
Approved for use through 07/31/2006. OMB 0651-0031

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	Application Number	10/772,971					
TRANSMITTAL	Filing Date	February 5, 2004					
FORM	First Named Inventor	Joseph Z. Lu					
	Art Unit	2857					
MAR 0 3 2006 Mo be used for all correspondence after initial filing)	Examiner Name	Unknown					
Total Number of Pages in This Submission 16	Attorney Docket Number	I20 06799 US					
	A Joint Number Pages in This Submission The Pages in This Submission						
ENCI	LOSURES (Check all	that apply)  After Allowance Communication to TC					
Fee Attached  Amendment/Reply  After Final  Affidavits/declaration(s)  Extension of Time Request  Express Abandonment Request	Drawing(s) Licensing-related Papers Petition Petition to Convert to a Provisional Application Power of Attorney, Revocation Change of Correspondence A Terminal Disclaimer Request for Refund CD, Number of CD(s) Landscape Table on CD	Appeal Communication to Board of Appeals and Interferences  Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)  Proprietary Information  Status Letter  Other Enclosure(s) (please Identify below):  4 Pgs International Search Report 5 Pgs Written Opinion  1 Reference					
SIGNATURE C	OF APPLICANT, ATTO	RNEY, OR AGENT					
Firm Name Horleywell International Inc.	$\bigcap$						
Signature All Mur	Loga						
Printed name Anthony Miologos		.,					
Date 7/1/2006		Reg. No. 29,677					
CERTIFICATE OF TRANSMISSION/MAILING  I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with							
sufficient postage as first class/mail in an envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below:							
Signature TWWW	Mutage						
Typed or printed name Anthony Miologos	V	Date 7/1/2006					

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## UTILITY PATENT APPLICATION

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of: Joseph Z. Lu

Group Art Unit: 2857

Serial No.: 10/772,971

Examiner: Unknown

Filed: February 5, 2004

Attorney Docket No.: I20 06799 US

For: APPARATUS AND METHOD FOR MODELING RELATIONSHIPS BETWEEN

**SIGNALS** 

### **CERTIFICATE OF MAILING UNDER 37 C.F.R. § 1.8(a)**

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to the Commissioner for Patents, P. O. Box 1450 Alexandria, VA 22313-1450.

on 7/1/2006

Signature:

Anthony Miologos

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Mail Stop Amendment Commissioner for Patents P O Box 1450 Alexandria, VA 22313-1450

### Commissioner:

In accordance with 37 C.F.R. 1.56 and in a manner prescribed by 37 C.F.R. 1.97 and 1.98, this Information Disclosure Statement (IDS) is being submitted herewith for consideration by the United States Patent and Trademark Office.

### I. CONTENT

This IDS includes:

A list of all patents, publications, applications, or other information submitted for consideration by the Office on PTO/SB/08A Form, which is included herewith:

		A legible copy of: (i) each foreign patent; (ii) each publication or that portion which caused it to be listed; and (iii) each cited pending U.S application, the application specification including claims, and any drawing of the application, or that portion of the application which caused it to be listed including any claims directed to that portion; and (iv) all other information or that portion which caused it to be listed, unless subsequently provided in this IDS.	/ d l
II.	CONC	CISE EXPLANATION OF THE RELEVANCE (check at least one box)	
		Except as may be subsequently indicated in this section II, a concise explanation is not required as all of the patents, publications, application or other information are in the English language.	
		A concise explanation of the relevance, as it is presently understood by the individual designated in 1.56(a) most knowledgeable about the content of the information, of all patents, publications, applications or other information listed that is not in the English language.	f
		A copy of the translation of a non-English Language document, or portio thereof is enclosed with this IDS (e.g., a translation of an abstract).	n
		Any patent, publication, pending application or other information that is listed on PTO/SB/08A Form, which are not enclosed herewith were previously cited by or submitted to the Office in one of the followin applications that has been relied on for an earlier effective filing date under 35 U.S.C 120 and the IDS submitted in the earlier application complies with paragraphs (a) through (c) of 1.98:	e g e
		U.S. Application Serial No. U.S. Filing Date	
III.	THIS	IDS IS BEING FILED UNDER 37 C.F.R. 1.97(b): (check one box)	
		Within three months of the filing date of a national application other that a continued prosecution application under 1.53(d).	n
		Within three months of the date of entry of the national stage as set fort in 1.491 in an international application.	h
		Before the mailing date of a first Office Action on the merits. In the event that a first Office Action on the merits has been mailed, please consider this IDS under 37 C.F.R. 1.97(c) and see the statement under 1.97(e) charge deposit account 50-2091 the fee specified by 37 C.F.R. 1.17(p) such statement is not selected in Section VI.	er or

		Before the mailing of a first Office Action after the filing of a request for continued examination under 1.114.
IV.	THIS !	IDS IS BEING FILED UNDER 37 C.F.R. 1.97(c):
		After the period specified in 37 C.F.R. 1.97(b) and before the mailing date of any of a final action under 1.113, a notice of allowance under 1.311 or an action that otherwise closes prosecution in the application, and accompanied by:
		a statement specified in 1.97(e) as subsequently provided in this IDS; or
		the fee set forth in 1.17(p).
V.	THIS	IDS IS BEING FILED UNDER 37 C.F.R. 1.97(d):
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VI.		nent under 37 C.F.R. 1.97(e) (check only one box) indersigned hereby states that:
		Each item of information contained in the IDS was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS.
		No item of information contained in the IDS was cited in a communication from a foreign patent office in a counterpart foreign application, and, to knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the IDS was known to any individual designated in 37 C.F.R. 1.56(c) more than three months prior to the filing of this IDS.
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		The undersigned hereby states that each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart application and that this communication was not received by any individual designated in 37 C.F.R. §1.56(c) more than thirty days prior to the filing of the information disclosure statement.

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		A check in the amount of \$ is enclosed for fees due with respect to this IDS.
		Please charge Deposit Account No in the amount of \$ for the fees due with respect to this IDS. A duplicate copy of this paper is included with this IDS.
IX.	CONC	LUSION
cited i that th which ordina an adr patent constrreques No. 29 is requestrated before the construction of	esent in this II ey cons would ary skill mission ability a ued as a If the sted to cop,906. I uested to the appears	espectfully submitted that the claims presently on file patently distinguish vention from each of these references cited in this IDS. The references DS are being cited only in the interests of candor and without any admission titute statutory prior art or contain matter which anticipates the invention or render the same obvious, either singly or in a combination, to a person of in the art. Furthermore the filing of this IDS should not be construed to be that the information cited in this IDS is, or is considered to be, material to as defined in 1.56(b). In addition, the filing of this IDS should not be representation that a search has been made.  Examiner has any questions concerning these IDS, the Examiner is contact the undersigned at the telephone number associated with Customer it is determined that this IDS has been filed under the wrong rule, the PTO of consider this IDS under the proper rule, with a petition if necessary, and propriate fee to Deposit Account No. 01-1125.  Respectfully submitted,  By:  Anthony Miologos
	•	Reg. No. 29,677  Iternational, Inc.
Enclo		<ul> <li></li></ul>

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MAR 0 3 2006 Substitute for form 1449/PTO

Sheet 1

# INFORMATION DISCLOSURE STATEMENT BY

(Use as many sheets as necessary)

Complete if Known			
Application Number	10/772,971		
Filing Date	February 5, 2004		
First Named Inventor	Joseph Z. Lu		
Art Unit	2857		
Examiner Name	Unknown		
Attorney Docket Number	120 06700 LIS		

			U. S. PATEN	T DOCUMENTS	
Examiner Initials*	Cite No.1	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	<u> </u>	Number-Kind Code <sup>2 (# known)</sup>			, iguico , ippozi
		<sup>US-</sup> 5,490,516	02-13-1996	Hutson	
		<sup>US-</sup> 6,026,334	02-15-2000	Kayihan et al.	
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FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No.1	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	
		Country Code <sup>3 -</sup> Number <sup>4 -</sup> Kind Code <sup>5</sup> (if known)	MM-DD-YYYY		Or Relevant Figures Appear	T <sup>6</sup>
			Į.			

Examiner	Date	
Signature	Considered	

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). See Kinds Codes of USPTO Patent Documents at <a href="www.uspto.gov">www.uspto.gov</a> or MPEP 901.04. Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Skind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. Applicant is to place a check mark here if English language Translation is attached.

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MAR U 3 2006	Application Number	10/772,971	
INFORMATION DISCLOSURE	Filing Date	February 5, 2004	
STATEMENT BY APPLICANT	First Named Inventor	Joseph Z. Lu	
(Use as many sheets as necessary)	Art Unit	2857	
(Use as many sneets as necessary)	Examiner Name	Unknown	
Sheet 2 of 2	Attorney Docket Number	I20 06799 US	

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>	
		HANNA, MAGDY T., Multiple signal Extraction by Multiple Interference Attenuation in the Presence of Random Noise in Seismic Array Data, IEEE Transactions on Signal Processing IEEE USA, Vol. 51, No. 7, July 2003, pg 1683-1694.	ł	
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Examiner	.	Date	<u>-</u>	
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Examiner		Date	
Signature	_	 Considered	

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